

BAGDASAROV, A.A.; GUSEJNOV, G.S.; CERNOV, G.A.; BIRJUZOVA, V.I.

Preservation of thrombocytes and its clinical application. Cas.
lek.cesk. 98 no.49/50:1509-1515 4 D '59.

1. Ustredni ustav hematologie a krevni transfuze, reditel radny
clen AMN SSSR prof. A.A. Bagdasarov.
(BLOOD PRESERVATION)
(BLOOD PLATELETS)

AUTHORS: Stoyanova, I. G., Nekrasova, T. A., S/020/60/131/01/054/060
Biryuzova, V. I. B011/B009

TITLE: Investigation of the Effect of Radiation¹⁹ on Bacteria Cells in the Humid Microchamber of the Electron Microscope

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol 131, Nr 1, pp 195 - 198 (USSR)

ABSTRACT: Since the object viewed in the electron microscope is irradiated with electrons, the authors were able to observe directly the effect of the radiation upon cells of *Bacillus mycoides* and *B. mesentericus* in the humid microchamber. The authors divide the radiation dosages largely into three groups: 1. Doses below 10^6 to $5 \cdot 10^6$ r, by which no noticeable morphological damage is done to the cells; 2. doses between 10^7 and 10^8 r, which cause visible damage; and 3. doses above 10^9 r, with which the cell polymerizes; it is "fixed", so to speak, by the electron beam. The authors used exposures from 5 to 10 seconds. The object was irradiated in its original state while the photograph was taken, and then dried or investigated without drying. Dosage group 1: Figure 1 a shows a group of cells of *B. mycoides* photographed in the humid state. Figure 1 b shows the dried preparation. Dosage

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Investigation of the Effect of Radiation on
Bacteria Cells in the Humid Microchamber of the
Electron Microscope

S/020/60/131/01/054/060
B011/B009

group 2: Figure 2 shows the effect upon *B.mycoides* and *B.mesentericus*. Figure 3 shows the changes caused in *B.mycoides* by irradiation with 10^8 r, figure 4 changes in *B.coli* by irradiation with 10^{10} and 10^7 r. The authors state in conclusion that by direct observation of the effect of the ionizing radiation in the electron microscope upon individual bacteria cells (not upon a culture as a whole) they found the following changes to take place when the dosage was raised from 10^6 to 10^{10} r: At first no visible morphological changes occur in the cells. Some processes which had gone on before the irradiation continue to take place. Then, however, visible morphological damage is caused: the cell membrane and flagellum are destroyed, the protoplast changes considerably, and eventually the cell is polymerized. The authors thank Yu. M. Kushnir and M. N. Meisel, Professor, for discussing the results. There are 4 figures and 3 references, 2 of which are Soviet. October 15, 1959, by A. I. Oparin, Academician October 15, 1959

PRESENTED:
SUBMITTED:
Card 2/2

BAGDASAROV, A.A., prof.; GUSEYNOV, Ch.S.; CHERNOV, G.A.; BIRYUZOVA, V.I.

Preservation of thrombocytes and their clinical use. Sov. med. 24
no.4:17-24 Ap '60. (MIRA 13:8)

1. Iz Tsentral'nogo instituta gematologii i perelivaniya krovi
(dir. - deystvitel'nyy chlen AMN SSSR prof. A.A. Bagdasarov)
Ministerstva zdoravookhraneniya SSSR.
(BLOOD PLATELETS)

BIRYUZOVA, V.I.

Bacterial mitochondria. Dokl. AN SSSR 135 no.6:1519-1520 D '60.
(MIRA 13:12)

1. Institut radiatsionnoy i fiziko-khimicheskoy biologii Akademii
nauk SSSR. Predstavleno akademikom V.A.Engerl'gardtom.
(MITOCHONDRIA) (BACTERIA)

LUKOYANOVA, M.A.; GEL'MAN, N.S.; BIRYUZOVA, V.I.

Structure of the cytoplasmic membranes of *Micrococcus lysodeikticus*
and succinic oxidase and succinic dehydrogenase activity. *Biokhimiia*
26 no.5:916-925 S-0 '61. (MIRA 14:12)

1. Institute of Biochemistry and Institute of Radiation and Physico-
chemical Biology, Academy of Sciences of the U.S.S.R., Moscow.
(MICROCOCCLUS) (SUCCINIC DEHYDROGENASE)
(SUCCINIC OXIDASE)

BIRYUZOVA, V.I.

The ultrafine structure of bacteria. Zhur. ob. biol. 22 no.6:401-
410 N-D '61. (MIRA 14:11)

1. Institut radiatsionnoy i fiziko-khimicheskoy biologii AN SSSR.
(BACTERIA)

BIRYUZOVA, V.I.; NIKITINA, E.S.

Cytological study of synchronously dividing cultures of *Escherichia coli* "B". *Mikrobiologiya* 30 no.6:1011-1015 N-D '61. (MIRA 14:12)

1. Institut radiatsionnoy i fiziko-khimicheskoy biologii AN SSSR.
(*ESCHERICHIA COLI*) (BACTERIOLOGY--CULTURES AND CULTURE MEDIA)

GUSEYNOV, Ch.S.; CHERNOV, G.A.; LAGUTINA, N.Ya.; BIRYUZOVA, V.I.;
DANILINA, Z.A.

Some problems in the mechanism of hemorrhage in thrombasthenia.
Pediatriia 39 no.2:3-8 P '61. (MIRA 14:2)

1. Iz Tsentral'nogo ordena Lenina instituta gematologii i pereli-
vaniya krovi Ministerstva zdravookhraneniya SSSR (dir. - deyst-
vitel'nyy chlen AMN SSSR prof. A.A. Bagdasarov) i detskoy kliniki
(dir. - deystvitel'nyy chlen AMN SSSR prof. Yu.F. Dombrovskaya)
I Moskovskogo meditsinskogo instituta imeni I.M. Sechenova.
(HEMOPHILIA)

BIRYUZOVA, V.I. [Biryuzova, V.I.]

Ultrastructure of bacteria. Analele biol 16 no.4:128-140 J1-Ag '62.

*

MEYSEL', M.N.; MEDVEDEVA, G.A.; BIRYUZOVA, V.I.; VOLKOVA, T.M.

A comparative study of the microscopic and ultramicroscopic structure of cells of the yeasts *Saccharomyces vini* and *Rhodotorula glutinis*. Mikrobiologiya 31 no.6:1011-1017 N-B '62.

(MIRA 16:3)

1. Institut mikrobiologii AN SSSR i Institut radiatsionnoy i fiziko-khimicheskoy biologii AN SSSR.
(YEAST) (CELLS)

BIRYUZOVA, Valentina Ivanovna; BOROVYAGIN, Valeriy Leonidovich;
GILEV, Vladimir Petrovich; KISELEV, Nikolay Andreyevich;
TIKHONENKO, Anna Sergeyevna; CHENTSOV, Yuriy Sergeyevich;
FRANK, G.M., otv. red.; SHMELEV, I.P., red.isd-va; RYLINA, Yu.V.,
tekhn. red.

[Electron-microscopic methods for studying biological objects]
Elektronnomikroskopicheskie metody issledovaniia biologicheskikh
ob"ektov. [By] V.I. Biryuzova i dr. Moskva, Izd-vo Akad. nauk
SSSR, 1963. 203 p.
(MIRA 16:6)

1. Institut radiatsionnoy i fiziko-khimicheskoy biologii AN SSSR (for Biryuzova, Tikhonenko).
2. Institut biologicheskoy fiziki AN SSSR (for Borovyagin).
3. Laboratoriya elektronnoy mikroskopii AN SSSR (for Gilev).
4. Institut kristallografii AN SSSR (for Kiselev).
5. Institut morfologii zhivotnykh AN SSSR (for Chentsov).
6. Chlen-korrespondent AN SSSR (for Frank).
(Biological research) (Electron microscopy)

MEYSEL', M.N.; MEDVEDEVA, G.A.; BIRYUZOVA, V.I.; VOLKOVA, T.M.

Comparative study of the microscopic and ultramicroscopic structure of cells of irradiated *Saccharomyces vini* and *Rhodotorula glutinis* yeasts. *Mikrobiologiya* 33 no.2:270-277 Mr-Apr '64. (MIRA 17:12)

1. Institut mikrobiologii AN SSSR, Institut radiatsionnoy i fiziko-khimicheskoy biologii AN SSSR.

BIRYUZOVA, V. I.; VOLKOVA, T. M.; MEYSEL, M. N.

"The effect of growth conditions upon the ultrastructure of yeast cell mitochondria."

report submitted for 3rd European Regional Conf, Electron Microscopy, Prague, 26 Aug-3 Sep 64.

ACCESSION NR: AP4015097

S/0205/64/004/001/0123/0128

AUTHOR: Biryuzova, V. I.; Kondratenko, V. G.

TITLE: Ultrastructural changes in irradiated cells of bone marrow culture

SOURCE: Radiobiologiya, v. 4, no. 1, 1964, 123-128

TOPIC TAGS: bone marrow ultrastructure, cell ultrastructural change, bone marrow primary culture, gamma-irradiation, electron microscopic method, reticular cell, myeloid cell, mitochondrion disorder, Golgi apparatus degeneration, endoplasmic reticulum, disturbed cell metabolism

ABSTRACT: Primary cultures prepared from white rat bone marrow were gamma-irradiated (^{60}Co , GUPOS unit, 700 r/min) with single 500 and 1000 r doses. Three hours after irradiation the cultures were centrifuged and the sedimentation fixed for polymerization. Using benzoyl peroxide as a catalyst, polymerization was conducted at 50-54°C for 18-24 hrs. Ultrathin sections were prepared with a microtome and investigated with an IEM-5Y electron microscope. Microscopic findings show that the ultrastructural organization of the

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ACCESSION NR: AP4015097

cells which form the primary bone marrow culture consists of two cell types, reticular and myeloid. The culture cells preserve in their ultrastructural organization the basic characteristics of the initial bone marrow cells. Gamma-irradiation of bone marrow culture cells leads to an increased nuclear surface, disorder of mitochondrion internal organization, vesicular degeneration of the Golgi apparatus, and membrane dilation of the endoplasmic reticulum. Changes in the ultrastructural components of the irradiated cell cultures suggest possible disorders of oxidizing phosphorylation, protein, nucleic, and lipid metabolism processes. The electron microscopic method compared to other microscopic methods proves to be more sensitive for finding early ultrastructural changes in irradiated cell cultures. The authors "express their gratitude to Academician Professor M. N. Meysel' for attention given to this work." Orig. art. has: 2 figures.

ASSOCIATION: Institut radiatsionnoy i fiziko-khimicheskoy biologii AN SSSR, Moskva (Institute of Radiation and Physicochemical Biology AN SSSR)

SUBMITTED: 10Jan63

DATE ACQ: 12Mar64

SUB CODE: LS
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NR REF SOV: 011

ENCL: 00

OTHER: 010

BIRYUZOVA, V. I.; LUKOYANOVA, M. A.; GEL'MAN, N. S.; OPARIN, A. I.,
akademik

Subunits in the cytoplasmatic membranes of *Micrococcus lysodeikticus*.
Dokl. AN SSSR 156 no. 1:198-199 My '64. (MIRA 17:5)

1. Institut biokhimii im. A. N. Bakha AN SSSR i Institut radiatsionnoy i fiziko-khimicheskoy biologii AN SSSR.

BIRYUZOVA, Valentina Ivanovna; BOROVYAGIN, Valeriy Leonidovich;
GILEV, Vladimir Petrovich; KISELEV, Nikolay Andreyevich;
TIKHONENKO, Anna Sergeyevna; CHENTSOV, Yuriy Sergeyevich;
FRANK, G.M., otv. red.

[Electron microscopic methods in studying biological objects]
Elektronnomikroskopicheskie metody issledovaniia biologiches-
skikh ob"ektov. [By] V.I.Biryuzova i dr. Moskva, Izd-vo AN
SSSR, 1963. 203 p.
(MIRA 17:5)

1. Chlen-korrespondent AN SSSR (for Frank).
2. Institut radiatsion-
noy i fiziko-khimicheskoy biologii AN SSSR (for Biryuzova).
3. Institut kristallografii AN SSSR (for Kiselev).
4. Laborat -
riya elektronnoy mikroskopii AN SSSR (for Gilev).
5. Institut
morfologii zhivotnykh AN SSSR (for Chentsov).
6. Institut bio-
logicheskoy fiziki AN SSSR (for Borovyagin).

MEYSEL', M.N.; REMEZOVA, T.S.; BIRYUZOVA, V.I.; GAL'TSOVA, R.D.; MEDVEDEVA, G.A.;
POMOSHCHNIKOVA, N.A.; SELIVERSTOVA, L.A.; POGIAZOVA, M.N.; NOVICHKOVA,
A.T.; VOLKOVA, T.M.

Cytophysiological and biochemical studies of yeasts during their
recovery following radiation injury. Izv. AN SSSR. Ser. biol. no.6:
827-851 N-D '64.
(MIRA 17:11)

1. Institute of Microbiology, Academy of Sciences of U.S.S.R., and
Institute of Radiation and Physico-Chemical Biology, Academy of
Sciences of U.S.S.R., Moscow.

MANTEYFEL', V.M. & PIRYUZOVA, V.I.

Electron microscopic study of a culture of human pancreatic
adenocarcinoma. Vop. onk. 11 no. 6: 77-79 '65.

(MIRA 18:8)

I. Akademiya nauk SSSR, Moskva.

L 58525-65

ACCESSION NO.

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410012-6

1. EPR 6-1-6

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APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410012-6"

MALATYAN, M.N.; BIRYUZOVA, V.I.

Localization of dehydrogenase activity in analogues of bacterial
cell mitochondria. Dokl. AN SSSR 160 no.5:1182-1184 F '65.
(MIRA 18:2)

1. Institut radiatsionnoy i fiziko-khimicheskoy biologii AN SSSR.
Submitted April 3, 1964.

ZELENIN, A.V.; BIRYUZOVA, V.I.; VOROTNITSKAYA, N.Ye.; LYAPUNOVA, Ye.A.

Separation of a subcellular fraction enriched with acridine orange
cytoplasmic granules. Dokl. AN SSSR 162 no.4:925-927 Je '65.

(MIRA 18:5)
1. Institut radiatsionnoy i fiziko-khimicheskoy biologii AN
SSSR. Submitted July 25, 1964.

BIRYUZOVA, V.I.; ZVYAGIL'SKAYA, R.A.; MALATYAN, M.N.; VOLKOVA, T.M.

Electron microscopic and cytochemical study of mitochondria
from yeast cells. Mikrobiologiya 33 no.3:442-446 My-Je '64.
(MIRA 18:12)

1. Institut radiatsionnoy i fiziko-khimicheskoy biologii
AN SSSR i Institut biokhimii imeni A.N.Bakha AN SSSR. Submitted
June 27, 1963.

LUKOYANOVA, M.A.; BIRYUZOVA, V.I.

Ultrastructure of bacterial membranes and the activity of enzymes
of the electron transport chain. Biokhimiia 30 no. 3:529-533
My-Je '65 (MIRA 1965)

1. Institut biokhimii imeni Bakha AN SSSR, Moskva, i Institut
radiatsionnoy i fiziko-khimicheskoy biologii AN SSSR, Moskva.

BIRYUZOVA, V.I.; NIKITINA, E.S.

Participation of the cytoplasmic membrane of Escherichia coli B. cells in the formation of mitochondrial analogs. Izv. AN SSSR. Ser. biol. 31 no.1:145-147 Ja-F '66. (MIRA 19:1)

1. Institut molekulyarnoy biologii AN SSSR. Submitted May 2, 1965.

TIKHONENKO, A.S.; BILYUZOVA, V.M.

Vladimir Aleksandrovich Engel'gardt, 1894- ; on his 70th birthday.
Mikrobiologiya 34 no.1:189 Ja-F '65. (MIRA 18:7)

PROMPTOV, Yuriy Gennadiyevich; BIRYUZOVA, Ye.I., red.; FAYNSEMDT,
F.Ya., tekhn.red.

[Your brave friends] Tvoi otvazhnye druz'ia. Moskva, Izd-vo
DOSAAF, 1960. 76 p. (MIRA 14:4)
(Lifesaving)

IVANSKIY, Anatoliy Ivanovich, trizhdy Geroy Sovetskogo Soyuz; BIRYUZOVA, Ya.I., red.; KOROLEV, A.V., tekhn. red.

[Eagle wings] Orlinye kryl'ia. Moskva, Izd-vo DOSAAF, 1961. 102 p.
(MIRA 15:5)

(Pokryshkin, Aleksandr I., 1913-)

TARSKIY, Yuriy Semenovich; BIRYUZOVA, Ye.I., red.; FAYNSHMIDT, F.Ya.,
tekhn. red.

[Story about the submarine] Rasskaz o podvodnoi lodke. Moskva,
Izd-vo DOSAAF, 1961. 133 p. (MIRA 14:11)
(Submarine boats)

NIKOLAYEV, Valeriy Vasil'yevich; BIRYUZOVA, Ye.I., red.; KOROLEV,
A.V., tekhn. red.

[Submarine service] O sluzhbe podvodnoi. Moskva, Izd-vo
DOSAAF, 1962. 85 p. (MIRA 15:12)
(World War, 1939-1945—Naval operations—Submarine)

GANTMAN, Vladimir Bentsianovich; YEMEL'YANOV, Yu.V., red.; BIRYUZOVA,
Ye.I., red.; KOROLEV, A.V., tekhn. red.

[Long voyages by boat] Na lodke v dal'nee plavanie. Moskva,
Izd-vo DOSAAF, 1962. 228 p. (MIRA 16:2)
(Motorboats)

VAL'DMAN, Ed^{or} Karlovich; KONDRASHEV, I.F., red.; BIRYUZOVA,
Ye.I., red.; FAYNSHMIDT, F.Ya., tekhn. red.

[Amusing problems in naval art and science] Zanimatel'nye
zadachi po voenno-morskemu delu. Moskva, Izd-vo DOSAAF, 1963.
142 p. (MIRA 16:6)

(Naval art and science--Problems, exercises, etc.)

KRASIL'NIKOV, N.A.; KHUDYAKOVA, Yu.A.; BIRYUZOVA, V.P.

Flagellar apparatus in Azotobacter in electron microscopy. Trudy
Inst. mikrobiol. no.2:44-50 '52. (MLRA 5:12)

(AZOTOBACTER,
flagella, electron microscopy)
(MICROSCOPY, ELECTRON,
of Azotobacter flagella)

NIKITIN, Petr Ivanovich; BIRYUZOVA, Ye.I., red.; BLAZHENKOVA, T.I., tekhn.red.

[Artificial earth satellites] Iskusstvennye sputniki zemli.
Moskva, Izd-vo DOSAAF, 1958. 87 p. (MIRA 12:2)
(Artificial satellites)

VAL'DMAN, Edgar Karlovich,; BASHKATOV, S.S.,red.[deceased],; BIRYUZOVA,
Ye.I., red.; TSIGEL'MAN, L.T., tekhn. red.

[Interesting problems in military science; military history,
topography and reconnaissance, small arms, artillery, automobiles,
motorcycles, tractors and tanks, antiaircraft defense] Zanimatel'nye
zadachi po voennomu delu; voennaya istoriya topografiya i razvedka
strelkovoe oruzhie, artilleriya, avtomobil', mototsikl, traktor
i tank, PVO. Moskva, Izd-vo DOSAAF, 1958. 149 p. (MIRA 11:11)
(Military art and science--Examinations, questions, etc.)

KHUKHRA, Yuriy Stepanovich; BIRYUKOVA, Ye.I., red.; BLAZHENKOVA, G.I.,
tekhn.red.

[Scale airplane models] Modeli - kopii samoletov. Moskva,
Izd-vo DOSAAF, 1959. 122 p. (MIRA 14:1)
(Airplanes--Models)

GANTMAN, Vladimir Bentsianovich; BIRYUZOVA, Ye.I., red.; KARYAKINA, M.S.,
tekhn.red.

[Four thousand kilometers on motorboats] 4000 kilometrov na
motornykh lodkakh. Moskva, Izd-vo DOSAAF, 1960. 118 p.
(MIRA 13:6)

(Motorboats)

KLOSS, Emiliy Emiliyevich; BIRYUZOVA, Ya.I. red.; KARYAKINA, M.S.,
tekhn.red.

[The "Turist" motorboat] Motornyi kater "Turist." Moskva,
Isd-vo DOSAAF, 1960. 117 p. (MIRA 13:11)
(Motorboats)

PARHON, C.C.; POPESCU, Ilie; BIRZA, Elena; PETCU, Georgeta

Investigations on the interference of glutathione in energy metabolism.
Rumanian M Rev. no.1:214-220 Ja-Mr '61.

(METABOLISM pharmacology) (GLUTATHIONE pharmacology)

BIRZAN, I.N.

New improvements in building flax scutching equipment. Ind. text
Rum 13 no.5:187-197 My '62.

1. I.P.I.U.

BIRZAN, Romanel, Ing. (Cluj); DUMITRU, Acu (Nasaud); SANDULACHE, C., prof. (Negresti Iasi); SAVULESCU, Benone (Buzau); IONESCU-TIU, C.; PIRSAN, Liviu; PRAVAT, V.V. (Iasi); SACTER, O.; POPA, Eugen (Iasi); ZAMFIRESCU, Tudor; VOICULESCU, Dan (Bucuresti); BEJANCU, Aurel; BARAS, Robert (Botosani); IARCHY, Tatiana, profesoara (Bucuresti); HADIRCA, I. (Breaza); JORA, S. Boris (Babadag); ROMAN, T.; COSTACHESCU, C.V. (Constanta)

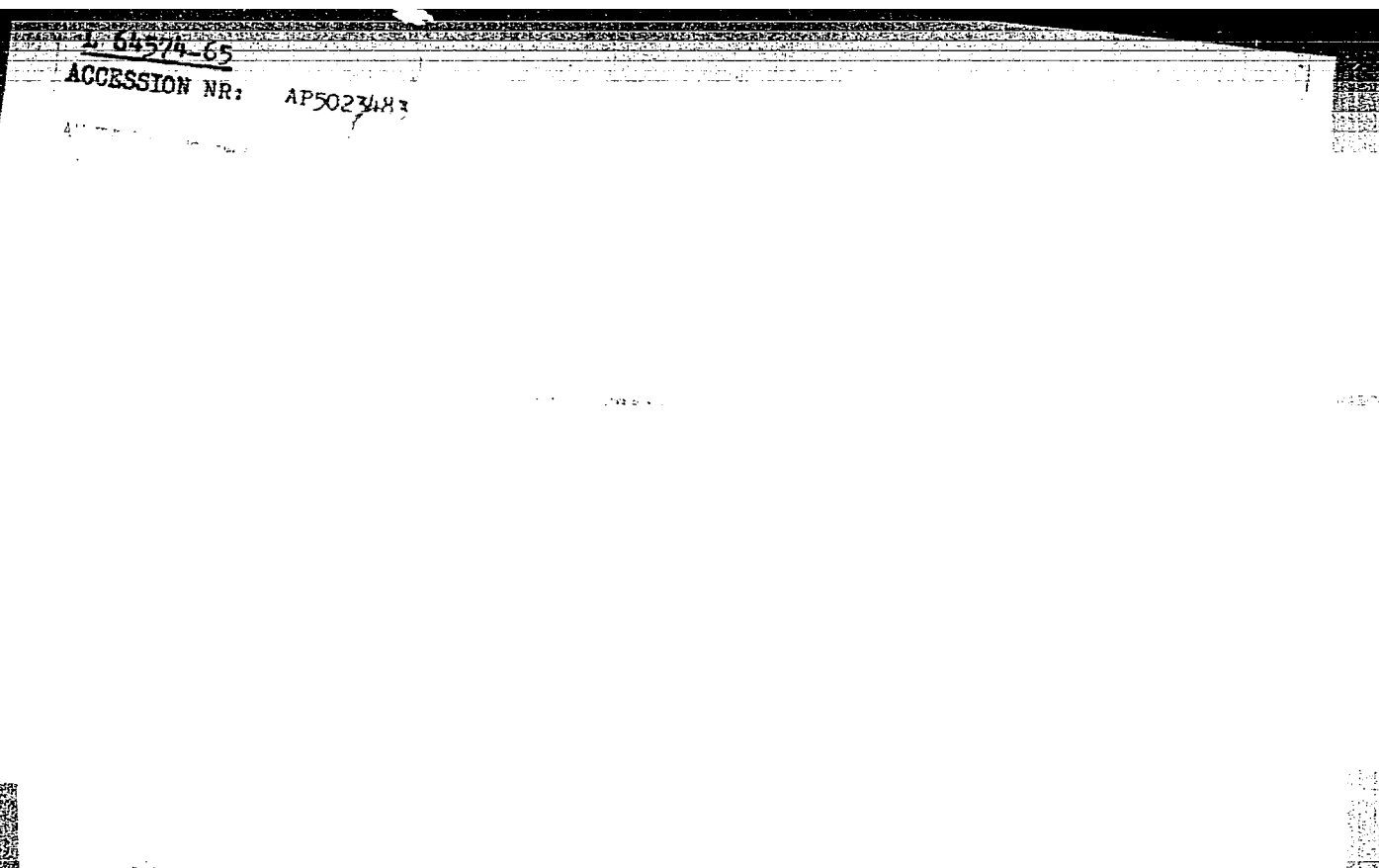
Proposed problems. Gaz mat B 15 no.2:80-85 F '64.

BRINZANESCU, V. (Constanta); DASCALESCU, H. (Ploiesti); IONESCU-TIU, C.;
ONOPRAS, E., prof. (Ploiesti); LEONTE, Aristide (Gralova); METTLER,
Martin, prof. (Viseu de Sus); LUPOVOC, M.L. (Lugansk, U.S.S.R.);
BIRZAN, Romanal (Cluj); GRIGORESCU, Serban (Bucuresti)

Solved problems. Gaz mat B 16 no.1:17-31 Ja '65.

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ACCESSION NR: 4101483

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SUBMITTED: 01

FILE: 01

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OTHER: 005

GOLDIN, L. L., ADESON-VELSKIY, G. M., BIRZGAL, A. P., PILIYA, A. D. and
TER-MARTIROSYAN, K. A. (Moscow USSR)

"La Desintegration Alpha des Noyaux non Spheriques."

report presented at the Intl. Congress for Nuclear Interactions (Low Energy) and
Nuclear Structure (Intl. Union Pure and Applied Physics) Paris, 7-12 July 1958.

AUTHORS:

Gol'din, L. L., Adel'son-Vel'skiy, I. I., 1959-1960-1961
 Arzool, A. P., Piliya, A. D., Ter-ent'yan, V. I.

TITLE:

α -decay of Non-spherical Nuclei (α -decay of non-spherical nuclei)

PERIODICAL:

Journal eksperimental'noy i teoreticheskoy fiziki. 1959.
 Vol. 35, Nr 1, pp. 151-202 (USSR)

ABSTRACT:

The present paper concerns a very detailed investigation of the theory of α -decay on the basis of a number of diagrams and papers. In the introduction the papers by Rasmussen and Segal (Segal) (Ref 1), Strutinskiy (Refs 2,3), Mosov (Refs 4,5) and Froman (Froman) (Ref 6) are discussed in short, which all deal with the theory of the perturbation of the rotation levels in α -decay. The present paper discusses the equations of the radial functions describing the motion of α -particles, which are emitted during the α -decay of non-spherical nuclei with arbitrary spins. Formulae are derived for the boundary conditions of the radial functions on the surface of the nucleus as well as for the probability of decay. The latter are based upon the radial functions and expressions for the shape of the nucleus. For the dependence

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The α -Decay of Non-Spherical Nuclei

SOV 56-5-1-16/51

of the probability of α -decay on the momentum l , which is carried off by the α -particle and on the energy of the daughter-nucleus a simple approximated formula was obtained. For even nuclei (spin 0) the various possibilities of deriving an approximated solution from the system of equations of the radial functions were analyzed. It was found that the terms connecting the equations (due to the non-spherical part of the Coulomb (Rulon) interaction between α -particles and the nucleus) cannot be looked upon as a perturbation for $l > 4$. An exact numerical solution of the system of equations is given for an elliptical nucleus in consideration of all multipole interactions. The wave function is in this case considered to be constant on the surface of the nucleus (nuclear surface). The significance of higher harmonics is determined in the Legendre (Lozhanski) polynomial expansion of the equation on the nuclear surface. The theoretical results are compared with the corresponding experimental ones. An appendix contains mathematical explanations of the system of equations (2.3) and of the boundary conditions of the system (2.5).

There are 6 figures, 9 tables, and 10 references, 6 of which are Soviet.

Card 2/3

PARHON, C.C.; BIRZA, Elena

Action of glutathione upon metabolism in the course of muscular activity. Studii cerc fiziol 5 no.1:49-52 '60. (EEAI 9:12)

1. Laboratorul de fiziologie al Facultatii de medicina veterinara, Institutul agronomic "M.Balcescu."

(MUSCLES)

(GLUTATHIONE)

(METABOLISM)

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1. Institute of Building Research and Construction Building Economics, Section of Construction Foundations.

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Budapest, September 24-27, 1963. Rev constr si mat constr 16
no.4:218-220 Ap'64

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working under hot climatic conditions. Gig.i san. no.5:18-23 My '54.
(MLRA 7:5)

1. Iz Instituta gigiyeny truda i professional'nykh zabolevaniy
Akademii meditsinskikh nauk SSSR. (Heat--Physiological effect)
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49 p.

(Latvia--Earth surface)

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1. Latvijas PSR Zinatnu akademijs, Ekonomikas instituts.
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12:171-173 '60. (KEAI 10:9)

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kand. jur. nauk; ZUMBERGA, M., red.; LEMBERGA, A., tekhn.
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711.424(47.311)

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Governmental and social characteristics of local Soviets.
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1. Latvijas PSR Zinatnu akademijas Ekonomikas instituts.

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Latviyskoy SSR
(Riga--Transportation, Automotive)

BIRZNER, A.

Improve bus communications. Avt.transp. 33 no.12:5-6 D '55.

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1. Zamestitel' Ministra avtomobil'nogo transporta i shosseynykh
dorog Latviyskoy SSR.

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(MIRA 10:10)

1.Zamestitel' ministra avtomobil'nogo transporta i shosseynykh
dorog Latviyskoy SSR.

(Latvia--Transportation, Automotive)

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Consolidation of automotive transportation units in Latvia into a system of public automotive transportation. Avt. transp. 37 no.9:25-26 S '59. (MIRA 12:12)

1. Zamestitel' ministra avtomobil'nogo transporta i shosseynykh dorog Latvyskoy SSR.

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Real and imaginary difficulties. Za rul. 20 no.5:15 My '62.
(MIRA 16:4)

1. Zamestitel' ministra avtomobil'nogo transporta i shosseynykh
dorog Latvyskoy SSR.

(Automobiles, Rental)

BIRZNEK, I. M.

Cand Med Sci - (diss) "Bacteriological study of tissues of the area of closed fractures of long tubular bones." Riga, 1961. 15 pp; (Academy of Sciences Latvian SSR, Inst of Experimental and Clinical Medicine); 350 copies; price not given; (KL, 7661 sup, 257)

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Vyrashchivanie molodi belorybitsy v prudakh [Pond culture of young white salmon]. Moskva, Pishchepromizdat, 1953. 64 p.

SO: Monthly List of Russian Accessions, Vol 6 No 8 November 1953

BIRZHEK, G. A.

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Sub 28 Apr 52, Moscow Technical Inst of the Fish Industry and Economy imeni
A. I. Mikoyan. (Dissertation for the Degree of Candidate in Biological
Sciences).

So: Vechernaya Moskva January-December 1952

BIRZNIEKS, L. (Riga)

Single-phase system of stepwise regulation of rectified voltage.
Vestis Latv ak no.9:57-60 '60.

(KEAI 10:9)

1. Akademiya nauk Latvyskoy SSR, Institut energetiki i elektrotehniki.
(Voltage regulators) (Electric current rectifiers)

BIRZNIEKS, L. (Riga)

Single-phase circuits of semiconductor rectifiers with step regulator of output voltage. Vestis Latv ak no. 14:81-84 '60.
(EEAI 10:9)

1. Akademiya nauk Latvyskoy SSR, Institut energetiki i elektromekhaniki.

(Electric current rectifiers) (Semiconductors)
(Electric circuits) (Voltage regulators)

ACCESSION NR: AP3007868

8/0197/63/000/008/0032/0042

AUTHORS: Biranlyeks, L.; Treymen, N.

TITLE: Fine control of potential on electrically mobile variable current state using control semiconductor rectifier elements

SOURCE: AN LatSSR. Izvestiya, no. 8, 1963, 32-42

TOPIC TAGS: voltage rectifier, silicon rectifier, magnetization current, impedance, commutator, voltage control

ABSTRACT: Increasing the fine control of potential on the electrically mobile state with silicon rectifiers without changing the structure of the tractive transformer or commutator equipment can be accomplished by changing the uncontrolled transitional rectifier element into a controllable rectifier element (CSRE). Detailed investigations have been made of the rectifying regime at various control positions determined by the current and potential in these regions. Approximate curves are obtained which give the mean value of the controlled potential. To simplify the analysis it is assumed that the magnetization current and coil impedance of the transformer are zero, the reverse current in regulated and uncontrolled semiconductors is zero, the forward voltage drop is independent of the current magnitude

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ACCESSION NR: AP3007868

and is equal to ΔU . An equivalent circuit diagram is constructed for the CSRE, and the fundamental operating regime in a single half-period is given in four regions - K1, B1, KB1, and B2 with K1 divided into two regions: K11 and K12 (see Figs. 1 and 2 on the Enclosures). For each regime a set of equations is derived to determine the instantaneous magnitude of the currents in the rectifier branches. The mean value of the rectified voltage in the regulation process is given by

$$U_d = k \frac{1}{\pi} \int_{\gamma_1}^{\pi} \sin \theta d\theta + \frac{1}{\pi} \int_{\alpha + \gamma_1}^{\pi} \sin \theta d\theta = k \frac{1 + \cos \gamma_1}{\pi} + \frac{1 + \cos (\alpha + \gamma_1)}{\pi}$$

This shows that the limits of fine control of potential as a function of triggering angle $\alpha + \gamma$ of the CSRE at each controller position is fixed by the inherent commutation angle γ_1 . Orig. art. has: 22 formulas, 7 figures, and 2 tables.

ASSOCIATION: Institut energetiki AN Latv. SSR (Power Institute, AN Latvian SSR)

SUBMITTED: 17Apr63

DATE ACQ: 21Oct63

ENCL: 02

SUB CODE: EE

NO REF SOV: 002

OTHER: 000

Cord 2/4

ACCESSION NR: AP3007868

ENCLOSURE: 01

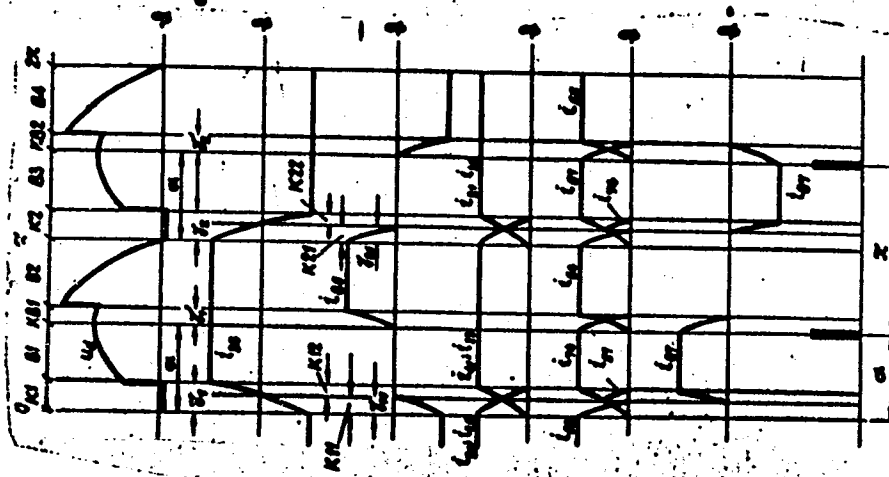


Fig. 1. Current and rectified voltage diagram.

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ACCESSION NR: AP3007868

ENCLOSURE: 02

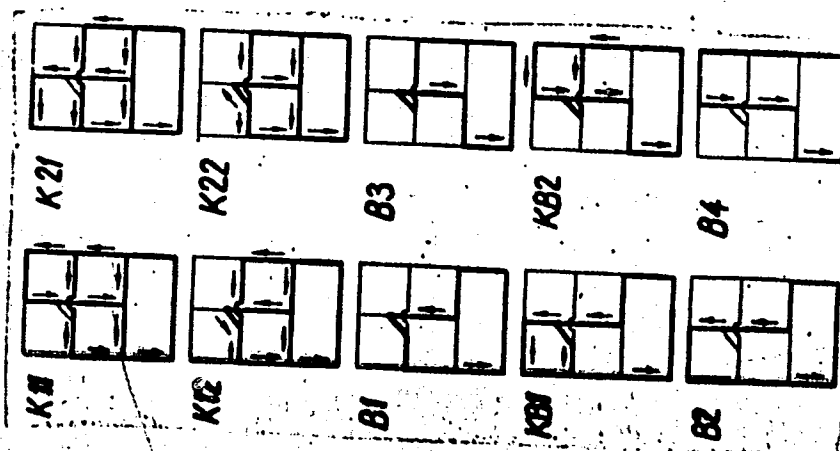


Fig. 2. Contours of current flow in various working regimes of the rectifier scheme.

Card 4/4

BIRZNIEKS, Lainons; KRILOVA, N., red.; LEMBERGA, A., tekhn. red.

[A.C.electric railroads]Mainstravas elektriskie dzelzceli.
Riga, Latvijas PSR Zinatnu akademijas izdevnieciba, 1962. 66 p.
(MIRA 15:12)
(Electric railroads)

BIRZNIYEKS, L. [Birznieks, L.]

Method of calculating stationary electromagnetic processes in
single-phase sectionalized rectifier circuits. Vestis Latv ak
no.4:53-62 '62.

1. Institut energetiki AN Latvyskoy SSR.

KROGERIS, A.F., kand. tekhn.nauk, otv. red.; BARZDAYNE, L.V.,
[Barzdaine, L.], kand. tekhn.nauk, red.; BIRZNIYEK,
L.V.[Birznieks, L.], kand. tekhn. nauk, red.;
PURITIS, T., red.; LAUKMANIS, L., red.; SHUL'TS, I.,
red.

[Semiconductors and their applications in electrical
engineering] Poluprovodniki i ikh primeneniye v elektros-
tehnike. Riga, Izd-vo AN Latviskoi SSR. Vol.3. 1964.
251 p. (MIRA 18:12)

1. Latvijas Padomju Socialistiskas Republikas Zinatnu
Akademija. Energetikas instituts.

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410012-6

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410012-6"

L 60230-65

SUBMITTED: 00

ENCL: 01

SUB CODE: EE, EC

NO REF SOV: 000

OTHER: 004

L 60230-85

ACCESSION NO. 175 17500

1 18-11-11 11 11 11

DIRZNIER, L. V.

"Electromagnetic Processes in Multistage Voltage Regulation Circuits in
Electric Rolling Stock with Semiconductor Rectifiers."

Dissertation for the degree of Doctor of Technical Sciences
defended at the Moscow Power Engineering Institute, January 1963

Moscow, Elektrichestvo, No.9 Sept 64, pp 94-95.

L 50029-55

... primeneniye v elektrotekhnike ... no. 17, 1964

1 600000

ACCESSION NR A1111375

INTERVIEW OF THE LATE SSSERBOLIKI AN LATVYEVSKY SSP (1944-45)

NO REF NEW

OTHER: 030

L 3108-66 EWT(d)/EWT(m)/ENP(i)/ENP(c)/ENP(v)/I/ENP(t)/ENP(k)/ENP(h)/ENP(b)/ENP(l)
 ACCESSION NR: AP5026358 JD UR/0105/64/000/009/0094/0095

AUTHOR: *Tsvetkov, V. A.; Birzniek, L. V.; Vysochanskiy, V. S.; Shakhnazaryan, Yu. M.; Kazanskiy, V. Ye.; Kapuntsov, Yu. D.; Salekh, M. A. Kh.; Frumkin, A. L.; Bakhovtsov, B. A.

TITLE: Dissertations in competition for the academic degree of doctor of technical sciences

SOURCE: Elektrichestvo, no. 9, 1964, 94-95

TOPIC TAGS: electric engineering, electric power engineering, electric equipment, electric distribution equipment, electric rotating equipment, automatic control, automatic control system

Abstract: The following defended dissertations at the Moscow Power Engineering Institute: V. A. TSVETKOV, 14 December 1962, on the theme "Autoparamagnetic Phenomena and Surges in Three-Phase Circuits which Contain Ferromagnetic Equipment," his official opponents -- Doctor of Technical Sciences, Professor V. A. TAFT and Candidate of Technical Sciences, Lecturer L. F. DMOKHOVSKAYA; L. V. BIRZNIYEK, 4 January 1963, on the theme "Electromagnetic Processes in Multistage Voltage Regulation Circuits in Electric

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*NOT AUTHOR OF ARTICLE

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ACCESSION NR: AP5026358

Rolling Stock with Semiconductor Rectifiers," his official opponents -- Doctor of Technical Sciences B. N. TIKHONENOV and Candidate of Technical Sciences, Lecturer L. M. TRAKHTMAN; V. S. VYSOCHANSKIY, 18 January 1963 on the theme "Methods for Controlling the Strip Tension at the Reel of a Cold Rolling Mills," his official opponents -- Doctors of Technical Sciences N. P. KUNITSKIY and N. N. DRUZHININ; Yu. M. SHAGHNAZARYAN, 18 January 1963, on the theme "Approximate Methods for Analysis of Non-Stationary Asynchronous Conditions in Electrical Systems," his official opponents -- Doctor of Technical Sciences, Professor L. G. MAMIKONYANTS and Candidate of Technical Sciences, Lecturer N. I. SOKOLOV; V. Ye. KAZANSKIY, 18 January, on the theme "Some Problems in Automation and Remote Control of Power Systems," his official opponents -- Doctor of Technical Sciences, Professor I. A. SYROMYATNIKOV and Candidate of Technical Sciences V. K. SPIRIDONOV; Yu. D. KAPUNTSOV, 18 January 1963, on the theme "An Asynchronous Electric Drive with Non-Symmetric Connection of the Saturation Chokes in the Stator Circuit," his official opponents -- Doctor of Technical Sciences V. Ye. BOGOLYUBOV and Candidate of Technical Sciences, Lecturer D. N. LIPATOV; M. A. Kh. SALEKH, 22 February 1963, on the theme "Theoretical Study of the Operation of Minature Two-Phase Asynchronous Machines when the Supply Voltage is not Sinusoidal," his official opponents -- Doctor of Technical Sciences, Professor A. I. BERTINOV and Candidate of Technical Sciences,

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L 3108-66

ACCESSION NR: AP5026358

10

Lecturer P. Yu. KAASIK; A. L. FRUMKIN, 8 March 1963, on the theme "A Theoretical and Experimental Study of the Permeability of Anisotropic Thin Magnetic Films," his official opponents -- Doctor of Physical and Mathematical Sciences, Professor R. V. TELESNIN and Candidate of Technical Sciences, Lecturer P. P. MESYATSEV; B. A. BAKHOVTSOV, 19 April 1963, on the theme "Synthesis of Systems for Automatic Control of Starting and Stopping of Electric Drives," his official opponents -- Doctor of Technical Sciences, Professor A. S. SANDLER and Candidate of Technical Sciences, Lecturer Yu. Ye. NITUSOV. At the Moscow Higher Technical Academy imeni Bauman -- G. A. MIRONOV, 10 December 1962, on the theme "A Method for Experimental Programming of Electronic Digital Computers," his official opponents -- Doctor of Physical and Mathematical Sciences, Professor L. A. LYUSTERNIK and Candidate of Technical Sciences, V. Ya. PETROV. At the All-Union Electrotechnical Institute im. Lenin -- V. A. VOL'KENAU, 11 December 1962, on the theme "Conductivity of Carborundum," his official opponents -- Doctor of Technical Sciences, Professor V. V. BURGSDORF and Candidate of Technical Sciences, D. V. SHISHMAN. At the Academy of Municipal Economy im. Pamfilov -- V. A. KOZLOV, 14 January 1963, on the theme "Problems in the Use of Closed Systems for Municipal Electrical Networks," his official opponents -- Professor P. G. GRUDINSKIY and Candidate of Technical Sciences, Lecturer F. F. VORONTSOV.

Card 3/4

L 3108-66

ACCESSION NR: AP5026358

Scientific Research Institute of Electromechanics -- L. Ya. STANISLAVSKIY, 23 November 1962, on the theme "On Work in the Field of High Power Turbo-generators and Hydrogenerators," his official opponents -- Doctor of Technical Sciences, Professor I. M. POSTNIKOV, Doctor of Technical Sciences I. D. URUSOV and Candidate of Technical Sciences Yu. M. EL'KIND. At the All-Union Research Institute of Railroad Transportation: V. D. TULUPOV, 21 December 1962, on the theme "Development and Investigation of a System for Automatic Control of Rheostat Braking of Rectifier Electric Locomotives," his official opponents -- Doctor of Technical Sciences B. N. TIKHMENEV and Candidate of Technical Sciences B. G. KAMENETSKIY; V. D. MONTSEV, 21 December 1962, on the theme "Protection of Traction Motors from Short Circuit Currents During Regenerative Braking," his official opponents -- Doctor of Technical Sciences, Professor V. Ye. ROZENFEL'D and Candidate of Technical Sciences L. N. TRAPHTMAN; A. V. KAMENEV, 11 January 1963, on the theme "Study of Voltage Control Systems for Power Transformers in AC Electric Locomotives with Rectifiers," his official opponents -- Doctor of Technical Sciences, I. P. ISAYEV and Engineer Kh. Ya. BYSTRITSKIY.

ASSOCIATION: none

SUBMITTED: 00

NO REF SOV: 000

Card 4/4

ENCL: 00

OTHER: 000

SUB CODE: EE, IE
JPRS

COUNTRY : Rumania
CATEGORY : Microbiology
ABS. JOUR. : Ref Zhur-Biologiya, No.4, 1959, No. 14842
AUTHOR : Aizicovici, H.; Scherzer, P.; Birzu, A.;
INST. : /Dimitriu, N.
TITLE : Preliminary Data on Pathogenic and Enterotox-
ic Staphylococci in the Confectionery Indus-
try.
NEG. PUB. : Igiena, 1958, 7, No.1, 31-38
ABSTRACT : No abstract

CARD: 1/1

34

BIRZU, Alexandrina

Considerations on the carriers of staphylococci in the alimentary sector. Microbiologia (Bucur) 6 no.1:61 Ja-F '61.

L 04494-67

ACC NR: AP6033621 (4) SOURCE CODE: RU/0023/66/011/005/0431/0435

AUTHOR: Birzu, Alexandrina (Doctor); Besleaga, Virginia -- Beshlyaga, Virginia (Doctor); Zavate, Olga (Doctor); Hutu, I. (Doctor); Khutsu, I. (Doctor); Iluca, V. -- Iluka, V. (Technical assistant); Varlan, V. -- Vyrlan, V. (Technical assistant)

ORG: Institute of Hygiene, Iasi (Institutul de igiena)

TITLE: Rattus norvegicus as a pathogen carrier

SOURCE: Microbiologia, parazitologia, epidemiologia, v. 11, no. 5, 1966, 431-435

TOPIC TAGS: animal disease, experiment animal, epidemiology, carrier state, pathogenic microbe

ABSTRACT: The state of pathogenic germs and conditioned pathogenic germ carriers were investigated in 106 rats captured in meat packing plants. It was found that 15.09% of the animals were carriers of S. enteritidis Gartner, and 1.8 % of S. typhimurium. Rats are carriers of conditioned pathogenic germs of the following genera and strains: Arizona, Citrobacter, Aerobacter, and Enterococcus with predominance of Str. faecalis in 74% of the cases. Of the examined animals, 8.5%

Cord 1/2

L 04494-67

ACC NR. AP6033621

showed potentially entero pathogenic coli-like germs, of types O₁₂₅ B₁₅ and
O₁₂₆ B₁₆. Orig. art. has: 3 tables. [Based on authors' abstract] [W.A. So] 0

SUB CODE: 06/ SUBM DATE: 08May65/ ORIG REF: 005/ SOV REF: 002/

OTH REF: 004/

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RUMANIA

UDC: 613.2-099:616-022.39-092.9

BIRZU, Alexandrina, Dr, BESLEAGA, Virginia, Dr, ZAVATE, Olga, Dr, HUTU, I., Dr, ILUCA, V., Technician, and VARLAN, V., Technician. Work performed at the Institute of Hygiene (Institutul de Igiena), Iasi.

"Rattus norvegicus as Pathogenic Germ Carrier."

Bucharest, Microbiologia, Parazitologia, Epidemiologia, Vol 11, No 5, Sep-Oct 66, pp 431-435.

Abstract [Authors' English summary modified]: The authors studied 106 rats caught in food enterprises to determine the percentage of carriers of pathogenic and conditionally pathogenic germs. Of the total, 15.9 percent were carriers of *S. enteritidis* Gaertner and 1.8 percent of *S. typhi-murium*. Among the conditional pathogenic species, the rats were carriers of *Arizona*, *Citrobacter*, *Aerobacter* and *Enterococcus* species, the latter represented by *Str. faecalis* in 74 percent of the strains. Approximately 8.5 percent of the animals showed potentially entero-pathogenic coli-like organisms.

Includes 3 tables and 11 references, of which 7 Rumanian, 2 Russian and 2 Western. -- Manuscript submitted 8 May 1965.

1011-247, 7
MINULESCU, M.; BIRZU, I.; CRUTU, S.; IOVANESCU, P.; IONESCU, D.;
LUPULESCU, V.; MICHEL, G.; PAULON, S.; ROTARU, A.; RUSOVICI, I.;
ZAHARIA, C.

The first focus of infantile leishmaniasis identified in the
Rumanian People's Republic. Stud. cercet. inframicrobiol., Bucur.
6 no.3-4:595-603 July-Dec. 1955.

(LEISHMANIASIS, in inf. & child
in Rumania, pathol. & epidemiol.)

BIRCU, I

DIMITRIU, C.C., Prof.; ROSCA, T., dr.; RADULESCU, E., dr.;
FAGARASANU, I., Prof.; BIRCU, I., dr.; BUCUR, A., dr.

Pre- and post-operative intravenous cholangiocholecystography,
cholangiography and radiomanometry. Med.int., Bucur. 8 no.5:
650-660 Sept 56.

1. Clinica medicala si Clinica chirurgicala a Spitalului
Carol Davila.

(CHOLANGIOGRAPHY

preoperative & postop. intravenous cholangiocystography,
indic., compl. & comparison with cholangiography &
radiomanometry)

(MANOMETER

radiomanometry in biliary tract surg., diag. value)

ZAHARIA, C.Al., dr.; BIRZU, I., dr.

Severe infections caused by *Salmonella typhimurium*.
Microbiologia (Bucur) 3 no.5:419-425 S-0'58.

EXCERPTA MEDICA Sec 6 Vol 14/6 Internal Med. June 60

3691. THE VALUE OF X-RAY EXAMINATION IN THE DIAGNOSIS OF NON-CALCULOUS CHOLECYSTOPATHIES - Valoarea examenului radiologic în diagnosticul colecistopatiilor necalculoase - Birzu J., Niculesco T., Schiau S., Deba M. and Stoenesco R. - MED. INTERNA (Bucuresti) 1959, 11/3 (343-356)

For the diagnosis of non-calculous cholecystopathies and diseases of the common bile duct, oral cholecystography is still valuable as the first stage of the examination. I. v. cholecystography (cholangiocholecystography) is absolutely indicated for the diagnosis of diseases of the common bile duct in cholecystectomized patients, in pre-operative investigations and in all cases where the gallbladder is found to

BIRZU, I., conf.; NECULA, V., dr.

Radiological aspects of organo-functional biliary disorders
(dyskinesias). Med. int., Bucur. 12 no.2:245-256 F '60.

1. Lucrare efectuată în Secția de radiologie a Spitalului
"Dr. I. Cantacuzino", București.
(BILIARY TRACT. diseases)